

Claims:

1. Hinge (10) which has at least one hinge part (16) which can be mounted in an opening (12) in a thin wall (14) such as a sheet-metal cabinet door, a head part (28), such as a flange or hinge leaf, which overlaps the rim (24) of the opening (12) of the thin wall (14) on its (outer) side (26), and a body part (30) which proceeds from the head part (28) and can be pushed through the opening (12) in the thin wall (14), and a holding part (34) which is carried by the body part (30), supported on the other (rear) side (32) of the thin wall (14), and is separate from the body part, characterized in that the holding part (34) is formed by holding elements (36) which project in a flexible manner from the body part (30) in the direction of its outer surface and whose free end has an inclined surface (38) for supporting the body part (30) on the rim or edge (40) of the opening (12) without play.
2. Hinge according to claim 1, characterized in that two holding elements (36-1, 36-2) which are arranged diametrical to one another are provided and are acted upon by pressure elements such as spring arrangements (42), particularly a coil spring common to the two holding elements (36-1, 36-2) or two coil springs (42-1, 42-2), or wedge arrangements such as conical screws (147, 149).
3. Hinge according to claim 1 or 2, characterized in that the holding elements (36) are levers (44) which are arranged at a distance (A) from the (rear) surface of the thin wall (14) so as to be rotatable to a limited extent around an axis (46) parallel to the plane of the thin wall (14).
4. Hinge according to claim 1 or 2, characterized in that the holding elements (236) are levers (236) which are arranged so as to be rotatable around an axis (58) perpendicular to the surface of the thin wall.
5. Hinge according to one of claims 1 or 2, characterized in that the holding elements (36) are slides (52) which are arranged so as to be displaceable in a cylinder (50) that lies parallel to the plane of the thin wall and is rectangular in cross section and are held against the force of a pressure spring by a hook arrangement that locks between the slides (52) themselves or in the cylinder.

6. Hinge according to one of claims 1 or 2, characterized in that the holding elements (36) are slides of rigid material such as metal which are arranged so as to be displaceable in a cylinder that is parallel to the plane of the thin wall and rectangular in cross section and are held against the force of a pressure spring by a pin arrangement (56, 156) that is arranged between them.

7. Hinge according to claim 5 or 6, characterized in that the cylinder (50) has a partial dividing wall or undercut or opening edge at which the slides are supported axially by a shoulder or hook.

8. Hinge according to one of claims 1 or 2, characterized in that the holding element has an opening which receives a spiral pressure spring by at least a portion of its diameter.

9. Hinge according to claim 8, characterized in that projections which hold the spring ends radially project into the opening.

10. Hinge according to one of claims 8 to 9, characterized in that the holding elements are formed by two flat metal pieces lying next to one another, each of which has an opening, these two openings together forming a space which receives a spiral pressure spring by at least a portion of its diameter.

11. Hinge according to one of claims 8 to 9, characterized in that the holding elements are formed by two metal pieces which lie next to one another and which form projections and recesses which are directed toward one another and which limit the axial sliding movement relative to one another.

12. Hinge according to one of claims 1 to 2, characterized in that the holding elements are formed by two plastic pieces or metal pieces which lie next to one another and which form projections and recesses which are directed toward one another and which can be engaged by a rotatable tool or key in such a way that the plastic pieces or metal pieces are displaced relative to one another against the spring force when the tool or key is turned.

13. Hinge according to one of claims 8 to 12, characterized in that the holding

elements are formed by a metal piece or by two metal pieces lying next to one another which is/are held jointly by a spring in such a way that these two or three parts form a manageable unit that is stable in itself.

14. Hinge according to claim 6, characterized in that a fixing pin or fixing plug or fixing screw is provided for fixing the holding elements after the hinge part is mounted in the opening.

15. Hinge according to one of claims 1 to 14, characterized in that the head part has a recess in the area of the holding elements.

16. Hinge according to claim 1, characterized in that the holding elements are formed by a leaf spring that is bent in a suitable manner.

17. Hinge according to claim 16, characterized in that the leaf spring is inserted into a radially extending cavity formed by the body part.

18. Hinge according to claim 17, characterized in that the cavity forms a slot or recess in which a projection and recess of the spring lock the latter in a working position in a fixed manner.

19. Hinge according to claim 16, characterized in that the leaf spring is held by a head screw that is screwed into a threaded bore hole formed by the body part.

20. Hinge according to claim 16, characterized in that the leaf spring is spot-welded or glued to a surface formed by the body part.

21. Hinge according to claim 1, characterized in that the hinge part has an opening like the thin wall and the holding part and the body part have their own head part.

22. Hinge according to claim 21, characterized in that the head part and body part are two parts that are screwed together.

23. Hinge according to one of claims 1 to 22, characterized in that a plurality of holding elements are arranged next to one another in axial direction of the hinge.

24. Hinge according to one of claims 1 to 23, characterized in that a second hinge part which is swivelably connected to the first hinge part has a construction analogous to that of the first hinge part.

25. Hinge according to one of claims 1 to 23, characterized in that a second hinge part which is swivelably connected to the first hinge part has a construction differing from that of the first hinge part with respect to its fastening to a frame, such as a door frame, or to a door leaf.

26. Hinge according to claim 25, characterized in that the second hinge part is welded to the frame or door leaf.

27. Hinge according to claim 25, characterized in that the second hinge part is screwed to the frame or door leaf.

28. Hinge according to claim 25, characterized in that the second hinge part is glued to the frame or door leaf.

29. Hinge according to claim 25, characterized in that the second hinge part is fastened to the frame or door leaf by means of a clamping pin.